

Your grade: 100%Your latest: **100%** • Your highest: **100%** • To pass you need at least 100%. We keep your highest score.[Next item →](#)

1. If your segmentation function is not producing adequate results, you can attempt this quiz as many times as needed.

1 / 1 point

How many frames of the video does your algorithm detect at least one car?

149

Correct

This is an acceptable result. Depending on your image processing methods, your answer may vary. For example, our sample solution yields the answer of 149.

2. What is the total region area (in number of pixels) for frame 152?

1 / 1 point

64963

Correct

This is an acceptable result. Depending on your image processing methods, your answer may vary. For example, our sample solution yields the answer of 67211.

3. Looking at the whole video, what is the [mode value](#) for the number of cars detected in a frame?

1 / 1 point

- ☐ 0
- ☒ 1
- ☐ 2
- ☐ 3

Correct

4. During the entire video, what is the average size of a region in terms of the number of pixels?

1 / 1 point

1.8098e+04

Correct

This is an acceptable result. Depending on your image processing methods, your answer may vary. For example, our sample solution yields the answer of 17931.

5. Take some time to compare your results for the number of cars detected in each frame to what you would say is the result when watching the video yourself. No algorithm is going to yield absolutely perfect results.

1 / 1 point

Which frame would you say your segmentation process gave an incorrect result and why? How could you change or add to your algorithm to fix this issue?

In frame 154, the segmentation process incorrectly identified two overlapping regions as a single region, resulting in an inaccurate count. This issue likely arose due to insufficient separation between the two regions during preprocessing. To improve accuracy, the algorithm could be enhanced by refining the segmentation process, such as applying morphological operations (e.g., erosion or watershed segmentation) to better separate overlapping regions and ensure distinct detection of each object.

Feedback

Good job taking the time to think critically about your results. Rarely does image processing always produce perfect results, and it is up to you to find out when and how your algorithms fail.